STAIRVILLE

LED Box 80 4in1 Quad Color

LED spotlight

th•mann
MUSIC IS OUR PASSION

user manual

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Table of contents

1 General notes 5
1.1 Further information 6
1.2 Notational conventions 7
1.3 Symbols and signal words 8
2 Safety instructions 10
3 Features 14
4 Installation 15
5 Starting up 19
6 Connections and controls 22
7 Operating 26
7.1 Starting up the device 26
7.2 Main menu 26
7.3 Menu overview 34
7.4 Functions in 16-channel DMX mode 35
7.5 Functions in 20-channel DMX mode 36

7.6 Functions in 32-channel DMX mode ... 39
8 Technical specifications ... 47
9 Plug and connection assignments ... 48
10 Troubleshooting ... 49
11 Cleaning ... 51
12 Protecting the environment ... 52

1 General notes

This manual contains important instructions for the safe operation of the unit. Read and follow the safety instructions and all other instructions. Keep the manual for future reference. Make sure that it is available to all those using the device. If you sell the unit please make sure that the buyer also receives this manual.

Our products are subject to a process of continuous development. Thus, they are subject to change.

1.1 Further information

On our website (*www.thomann.de)* you will find lots of further information and details on the following points:

Download	This manual is also available as PDF file for you to download.
Keyword search	Use the search function in the electronic version to find the topics of interest for you quickly.
Online guides	Our online guides provide detailed information on technical basics and terms.
Personal consultation	For personal consultation please contact our technical hotline.
Service	If you have any problems with the device the customer service will gladly assist you.

1.2 Notational conventions

This manual uses the following notational conventions:

Letterings

The letterings for connectors and controls are marked by square brackets and italics.

Examples: *[VOLUME]* control, *[Mono]* button.

Displays

Texts and values displayed on the device are marked by quotation marks and italics.

Examples: *'24ch'*, *'OFF'*.

Cross-references

References to other locations in this manual are identified by an arrow and the specified page number. In the electronic version of the manual, you can click the cross-reference to jump to the specified location.

Example: See *'Cross-references' on page 7*.

1.3 Symbols and signal words

In this section you will find an overview of the meaning of symbols and signal words that are used in this manual.

Signal word	Meaning
DANGER!	This combination of symbol and signal word indicates an immediate dangerous situation that will result in death or serious injury if it is not avoided.
WARNING!	This combination of symbol and signal word indicates a possible dangerous situation that can result in death or serious injury if it is not avoided.
NOTICE!	This combination of symbol and signal word indicates a possible dangerous situation that can result in material and environmental damage if it is not avoided.

Warning signs	Type of danger
	Warning – high-voltage.
	Warning – suspended load.
	Warning – danger zone.

2 Safety instructions

Intended use

This device is intended to be used as an electronic illumination effect using LED technics. Use the device only as described in this user manual. Any other use or use under other operating conditions is considered to be improper and may result in personal injury or property damage. No liability will be assumed for damages resulting from improper use.

This device may be used only by persons with sufficient physical, sensorial, and intellectual abilities and having corresponding knowledge and experience. Other persons may use this device only if they are supervised or instructed by a person who is responsible for their safety.

Safety

DANGER!

Danger for children

Ensure that plastic bags, packaging, etc. are disposed of properly and are not within reach of babies and young children. Choking hazard!

Ensure that children do not detach any small parts (e.g. knobs or the like) from the unit. They could swallow the pieces and choke!

Never let children unattended use electrical devices.

DANGER!

Electric shock caused by high voltages inside

Within the device there are areas where high voltages may be present. Never remove any covers.

There are no user-serviceable parts inside.

Do not use the device if covers, protectors or optical components are missing or damaged.

DANGER!

Electric shock caused by short-circuit

Always use proper ready-made insulated mains cabling (power cord) with a protective contact plug. Do not modify the mains cable or the plug. Failure to do so could result in electric shock/death or fire. If in doubt, seek advice from a registered electrician.

WARNING!

Eye damage caused by high light intensity

Never look directly into the light source.

WARNING!

Risk of epileptic shock

Strobe lighting can trigger seizures in photosensitive epilepsy. Sensitive persons should avoid looking at strobe lights.

NOTICE!

Risk of fire

Do not cover the device nor any ventilation slots. Do not place the device near any direct heat source. Keep the device away from naked flames.

NOTICE!

Operating conditions

This device has been designed for indoor use only. To prevent damage, never expose the device to any liquid or moisture. Avoid direct sunlight, heavy dirt, and strong vibrations.

NOTICE!

Power supply

Before connecting the device, ensure that the input voltage (AC outlet) matches the voltage rating of the device and that the AC outlet is protected by a residual current circuit breaker. Failure to do so could result in damage to the device and possibly injure the user.

Unplug the device before electrical storms occur and when it is unused for long periods of time to reduce the risk of electric shock or fire.

3 Features

Special features of this device:

- Four LED modules with each five four-colour LEDs (red, green, blue and white, 4 W each)
- Stand-alone, master-slave or DMX mode operation
- Operating via buttons and display on the unit
- Robust metal housing with four LED modules, separately swivelling along two axes
- Stand adapter, mounting bracket, and universal mounting bracket included
- Suitable for use in clubs, bars, theatres, exhibitions, etc.

4 Installation

Unpack and carefully check that there is no transportation damage before using the unit. Keep the equipment packaging. To fully protect the device against vibration, dust and moisture during transportation or storage use the original packaging or your own packaging material suitable for transport or storage, respectively.

You can install the device on the wall, ceiling or floor. A mounting bracket and the necessary screws are included in the package.

WARNING!

Risk of injury caused by falling objects

Make sure that the installation complies with the standards and rules that apply in your country. Always secure the device with a secondary safety attachment, such as a safety cable or a safety chain.

NOTICE!

Risk of overheating

Always ensure sufficient ventilation.

The ambient temperature must always be below 40 °C (104 °F).

NOTICE!

Use of stands

When mounting the device onto a stand, ensure that the stand is in a safe and stable position and that the weight of the device does not exceed the maximum permissible load capacity of the stand.

NOTICE!

Possible data transmission errors

For error-free operation make use of dedicated DMX cables and do not use ordinary microphone cables.

Never connect the DMX input or output to audio devices such as mixers or amplifiers.

Mounting options

You can install the device using a stand, as well as standing or hanging upside down. When in use, the device must be mounted at a solid surface or clamped to an approved truss. Use the brackets provided for mounting.

Always work from a stable platform whenever installing, moving or servicing the unit. Block access under the work area.

The safety cable must be attached to the bracket (*Chapter 6 'Connections and controls' on page 22*).

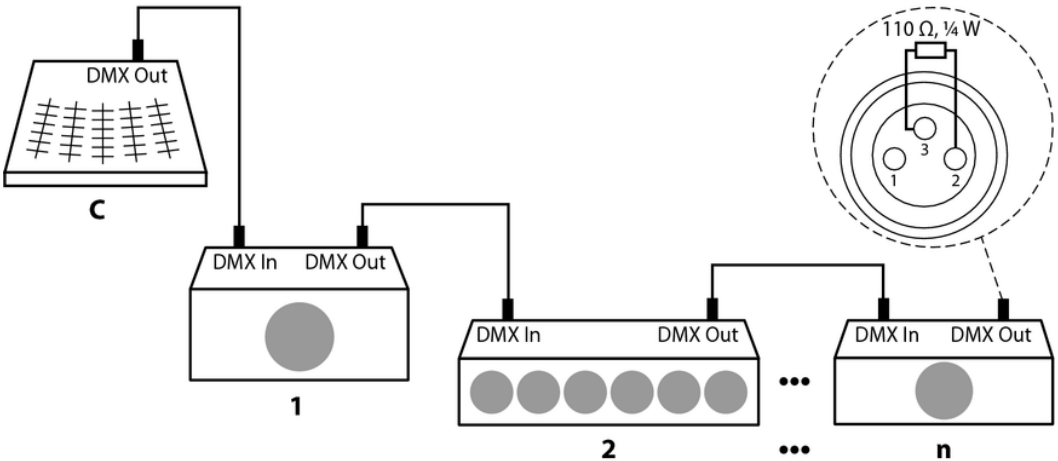
Please note that this device must not be connected to a dimmer.

5 Starting up

Establish all connections as long as the unit is switched off. Use the shortest possible high-quality cables for all connections.

Connections in DMX mode

Connect the DMX input of the device to the DMX output of a DMX controller or another DMX device. Connect the output of the first DMX device to the input of the second one, and so on to form a daisy chain. Always ensure that the output of the last DMX device in the daisy chain is terminated with a resistor (110 Ω, ¼ W).

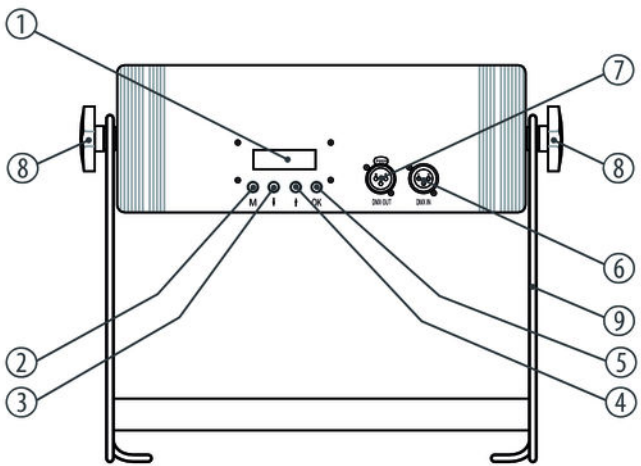


Connections in master/slave mode

When you configure a group of devices in master/slave mode, the first unit will control the other units for an automatic, sound-activated, synchronized show. This function is ideal when you want to start a show immediately. Connect the DMX output of the master device to the DMX input of the first slave device. Then connect the DMX output of the first slave device to the DMX input of the second slave device and so on.

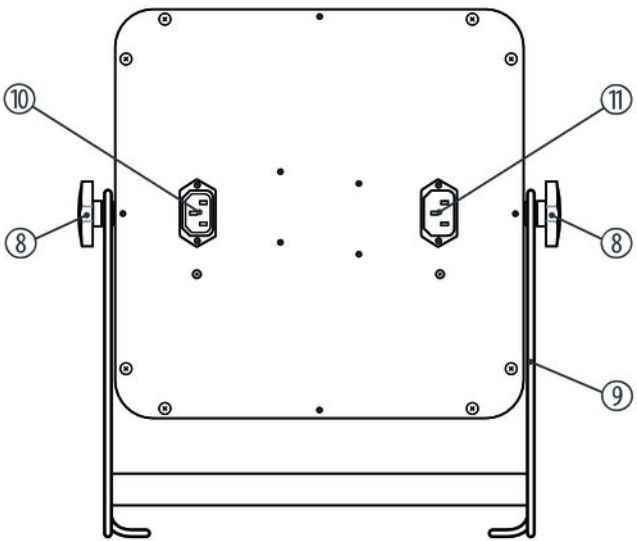
6 Connections and controls

Bottom



1	Display.
2	*[M]* button Switches one menu level up.
3, 4	Buttons ↓, ↑ Toggles between the menu items of a menu level, increases or decreases the displayed value by one.
5	*[OK]* button Switches one menu level down, confirms a selected value.
6	*[DMX IN]* DMX input.
7	*[DMX OUT]* DMX output.
8	Locking screws for the mounting bracket.
9	Bracket for floor placement or hanging.

Rear panel



8	Locking screws for the mounting bracket.
9	Bracket for floor placement or hanging.
10	IEC chassis plug for operating voltage supply.
11	IEC chassis socket for the power supply cable to the next unit.

7 Operating

7.1 Starting up the device

Connect the unit to the power grid to start the operation. After a few seconds, the display shows the last set value.

7.2 Main menu

Press *[M]* (if necessary repeatedly) to enter the main menu. Use the arrow keys to select an operating mode. Press *[OK]*. Use the arrow keys to change the respectively indicated value. When the display shows the desired value, press *[OK]* (see menu structure ↳ *Chapter 7.3 'Menu overview' on page 34*).

When changing values, the display keeps flashing until you confirm with *[OK]*. The set values are retained even when the device is disconnected from the mains power.

DMX mode

Press *[M]*. Press one of the arrow keys repeatedly until the display shows *'SET'*. Press *[OK]*. Press one of the arrow keys repeatedly until the display shows *'MODE'*. Press *[OK]*. Now use the arrow keys to select one of the following DMX operating modes:

- *'16CH'* (sixteen channels)
- *'20CH'* (twenty channels)
- *'32CH'* (thirty-two channels)

This setting is only relevant if the unit is controlled via DMX. When the display shows the desired value, press *[OK]* to confirm the selection and then *[M]* to return to the parent menu. To return to the parent menu without any changes, press *[M]*.

DMX address

Press *[M]*. Press one of the arrow keys repeatedly until the display shows *'DMX'*. Press *[OK]*. Now you can set the number of the first DMX channel to be used by the device (DMX address). Select a value between 1 and 512 with the arrow keys (display shows *'A001'* … *'A512'*).

When the display shows the desired value, press *[OK]* to confirm the selection and then *[M]* to return to the parent menu. To return to the parent menu without any changes, press *[M]*.

Make sure that this number matches the configuration of your DMX controller. The following table shows the highest possible DMX address for the various DMX modes.

Mode	Highest possible DMX address
16-channel	497
20-channel	493
32-channel	481

Operating mode 'Show/Master'

Press *[M]*. Press one of the arrow keys repeatedly until the display shows *'LINE'*. Press *[OK]*. Press one of the arrow keys repeatedly until the display shows *'-MA-'*. Press *[OK]*. Now you can select one of the preprogrammed automatic shows. Use the arrow keys to select a value between 1 and 42 (display shows *'P-01'* … *'P-42'*).

The automatic show can only be activated on the unit that operates as Master.

This setting is only relevant if the unit is not controlled via DMX. The device can work in stand-alone mode or control connected devices of the same type, which must be configured as slave. When the display shows the desired value, press *[OK]* to confirm the selection and then *[M]* to return to the parent menu. To return to the parent menu without any changes, press *[M]*.

Operating mode 'Slave'

Press *[M]*. Press one of the arrow keys repeatedly until the display shows *'LINE'*. Press *[OK]*. Press one of the arrow keys repeatedly until the display shows *'-SL-'*. Press *[OK]*. Now you can set the number of the device through which it is addressed as Slave by the Master. Select a value between 1 and 512 with the arrow keys (display shows *'A001'* … *'A512'*).

This setting is only relevant if the unit works as slave controlled by a master, but not via DMX. When the display shows the desired value, press *[OK]* to confirm the selection and then *[M]* to return to the parent menu. To return to the parent menu without any changes, press *[M]*.

Brightness

Press *[M]*. Press one of the arrow keys repeatedly until the display shows *'SET'*. Press *[OK]*. Press one of the arrow keys repeatedly until the display shows *'DIMM'*. Press *[OK]*. Now you can set the brightness for the preprogrammed automatic shows. Use the arrow keys to select a value between 0 and 255 (display shows *'D000'* … *'D255'*).

This setting is only relevant if the unit is not controlled via DMX. When the display shows the desired value, press *[OK]* to confirm the selection and then *[M]* to return to the parent menu. To return to the parent menu without any changes, press *[M]*.

Manual test

Press *[M]*. Press one of the arrow keys repeatedly until the display shows *'TEST'*.

Press *[OK]*. Now you can select one of two modes:

'SHOR'	Display for all LEDs of all four LED modules
'STAN'	Display of LEDs per module

SHOR

Press one of the arrow keys repeatedly until the display shows *'SHOR'*. Press *[OK]*. Press one of the arrow keys repeatedly until the display shows *'RED'*, *'STRO'*, *'WHIT'*, *'BLUE'* or *'GREE'*. Press *[OK]*. Now you can adjust the brightness of the selected colour, each in a range of 0 to 255, or select the flashing speed in a range of 0 to 24.

STAN

Press one of the arrow keys repeatedly until the display shows *'STAN'*. Press *[OK]*. Now you can select one of 16 channels and thereby determine which colour should be displayed on which LED module. Four channels stand for the four colours of an LED module. Use the arrow keys to select a value between 1 and 16 (display shows *'CH01'* … *'CH16'*). Press *[OK]*. Now you can set the brightness of the selected colour, each in a range of 0 to 255.

This operation mode is also suitable to produce constant or flashing light of a colour mixed from the four LED colours without DMX control.

When the display shows the desired value, press *[OK]* to confirm the selection and then *[M]* to return to the parent menu. To return to the parent menu without any changes, press *[M]*.

Fade programmes

Press *[M]*. Press one of the arrow keys repeatedly until the display shows *'FADE'*. Press *[OK]*. Now you can adjust the fade speed of the preprogrammed automatic shows. Select a value between 1 and 19 with the arrow keys (display shows *'F-01'* … *'F-19'*).

This setting is only relevant if the unit is not controlled via DMX. When the display shows the desired value, press *[OK]* to confirm the selection and to return to the main menu. To return to the main menu without any changes, press *[M]*.

Programme speed

Press *[M]*. Press one of the arrow keys repeatedly until the display shows *'SET'*. Press *[OK]*. Press one of the arrow keys repeatedly until the display shows *'SPEE'*. Press *[OK]*. Now you can set the programme speed for the preprogrammed automatic shows. Select a value between 0 and 255 with the arrow keys (display shows *'T000'* … *'T255'*).

This setting is only relevant if the unit is not controlled via DMX. When the display shows the desired value, press *[OK]* to confirm the selection and then *[M]* to return to the parent menu. To return to the parent menu without any changes, press *[M]*.

Colour selection

Press *[M]*. Press one of the arrow keys repeatedly until the display shows *'COLO'*. Press *[OK]*. Now you can set the a basic colour for the preprogrammed automatic shows. Select a value between 1 and 22 with the arrow keys (display shows *'C-01'* … *'C-22'*).

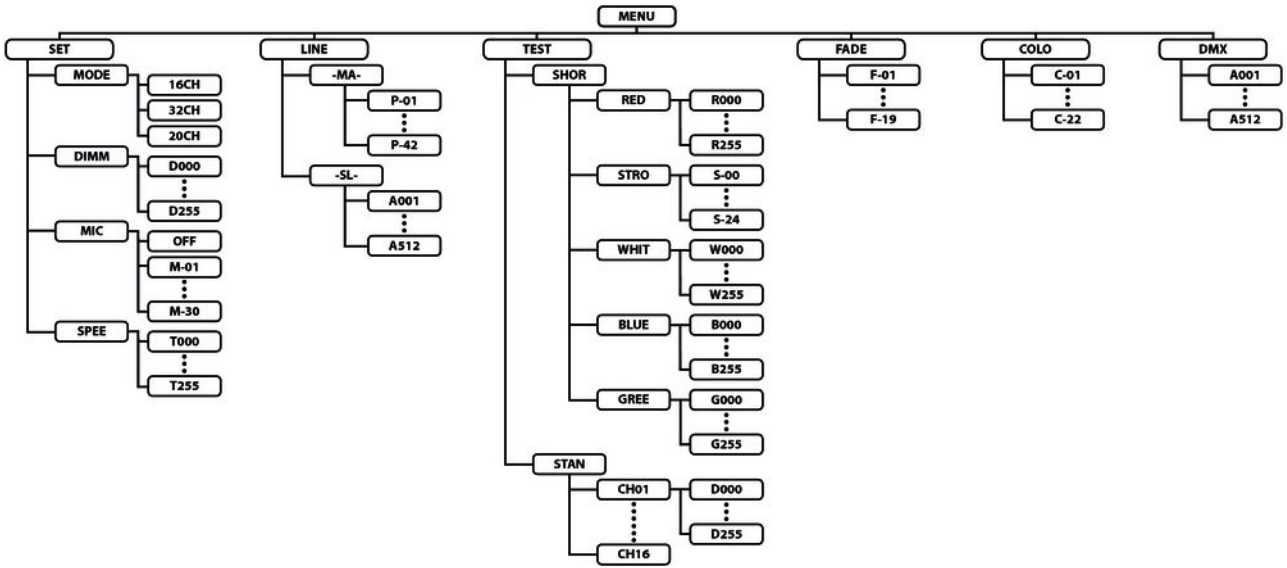
This setting is only relevant if the unit is not controlled via DMX. When the display shows the desired value, press *[OK]* to confirm the selection and to return to the main menu. To return to the main menu without any changes, press *[M]*.

Microphone sensitivity

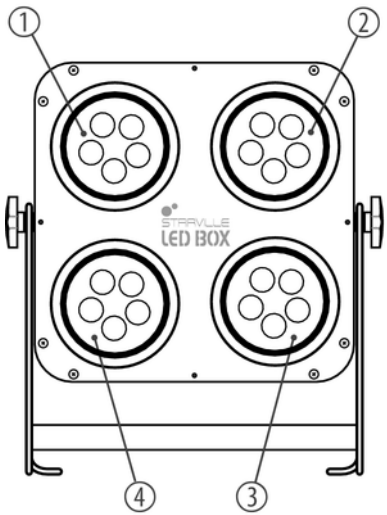
Press *[M]*. Press one of the arrow keys repeatedly until the display shows *'SET'*. Press *[OK]*. Press one of the arrow keys repeatedly until the display shows *'MIC'*. Press *[OK]*. Now you can adjust the sensitivity of the built-in microphone for the sound-control. Use the arrow keys to select either *'OFF'* (microphone off) or a value between 1 and 30 (display shows *'M-01'* … *'M-30'*).

This setting is only relevant if the unit is not controlled via DMX. When the display shows the desired value, press *[OK]* to confirm the selection and then *[M]* to return to the parent menu. To return to the parent menu without any changes, press *[M]*.

7.3 Menu overview



7.4 Functions in 16-channel DMX mode



Channel	Value	Function
1	0…255	Intensity red (0 % to 100 %), LED module 1
2	0…255	Intensity green (0 % to 100 %), LED module 1
3	0…255	Intensity blue (0 % to 100 %), LED module 1
4	0…255	Intensity white (0 % to 100 %), LED module 1
5	0…255	Intensity red (0 % to 100 %), LED module 2
6	0…255	Intensity green (0 % to 100 %), LED module 2
7	0…255	Intensity blue (0 % to 100 %), LED module 2
8	0…255	Intensity white (0 % to 100 %), LED module 2
9	0…255	Intensity red (0 % to 100 %), LED module 3
10	0…255	Intensity green (0 % to 100 %), LED module 3
11	0…255	Intensity blue (0 % to 100 %), LED module 3

Channel	Value	Function
12	0…255	Intensity white (0 % to 100 %), LED module 3
13	0…255	Intensity red (0 % to 100 %), LED module 4
14	0…255	Intensity green (0 % to 100 %), LED module 4
15	0…255	Intensity blue (0 % to 100 %), LED module 4
16	0…255	Intensity white (0 % to 100 %), LED module 4

7.5 Functions in 20-channel DMX mode

Channel	Value	Function
1	0…255	Intensity red (0 % to 100 %) on LED module 1, if channel 17 = 0…15 and channel 19 = 0…31
2	0…255	Intensity green (0 % to 100 %) on LED module 1, if channel 17 = 0…15 and channel 19 = 0…31
3	0…255	Intensity blue (0 % to 100 %) on LED module 1, if channel 17 = 0…15 and channel 19 = 0…31

Channel	Value	Function
4	0…255	Intensity white (0 % to 100 %) on LED module 1, if channel 17 = 0…15 and channel 19 = 0…31
5	0…255	Intensity red (0 % to 100 %) on LED module 2, if channel 17 = 0…15 and channel 19 = 0…31
6	0…255	Intensity green (0 % to 100 %) on LED module 2, if channel 17 = 0…15 and channel 19 = 0…31
7	0…255	Intensity blue (0 % to 100 %) on LED module 2, if channel 17 = 0…15 and channel 19 = 0…31
8	0…255	Intensity white (0 % to 100 %) on LED module 2, if channel 17 = 0…15 and channel 19 = 0…31
9	0…255	Intensity red (0 % to 100 %) on LED module 3, if channel 17 = 0…15 and channel 19 = 0…31
10	0…255	Intensity green (0 % to 100 %) on LED module 3, if channel 17 = 0…15 and channel 19 = 0…31
11	0…255	Intensity blue (0 % to 100 %) on LED module 3, if channel 17 = 0…15 and channel 19 = 0…31
12	0…255	Intensity white (0 % to 100 %) on LED module 3, if channel 17 = 0…15 and channel 19 = 0…31
13	0…255	Intensity red (0 % to 100 %) on LED module 4, if channel 17 = 0…15 and channel 19 = 0…31
14	0…255	Intensity green (0 % to 100 %) on LED module 4, if channel 17 = 0…15 and channel 19 = 0…31
15	0…255	Intensity blue (0 % to 100 %) on LED module 4, if channel 17 = 0…15 and channel 19 = 0…31
16	0…255	Intensity white (0 % to 100 %) on LED module 4, if channel 17 = 0…15 and channel 19 = 0…31

Channel	Value	Function
17	Fixed colour pattern	
	0…15	No fixed colour and movement pattern
	16…255	One of 31 fixed colour patterns, channels 1…16 as well as 18 and 19 without function
18	Strobe effect	
	0…15	Full brightness, no strobe effect
	16…255	Strobe effect, increasing speed, if channel 17 = 0…15
	Effects speed (for channel 19 = 128…223)	
	0…255	Increasing speed, if channel 17 = 0…15
19	Operating mode selection	
	0…31	Constant colour, colour hue is set via channels 1…16
	32…63	Fade-out effect, strobe speed is controlled via channel 18
	64…95	Fade-In effect, strobe speed is controlled via channel 18
	96…127	Fade-in-out effect, strobe speed is controlled via channel 18

Channel	Value	Function
	128…159	Auto-mix effect, speed is controlled via channel 18, channels 1…16 without function
	160…191	Chase (4 colours), speed is controlled via channel 18, channels 1…16 without function
	192…223	Chase (12 colours), speed is controlled via channel 18, channels 1…16 without function
	224…255	Sound-controlled colour change (12 colours)
20	0…255	Dimmer

7.6 Functions in 32-channel DMX mode

Channel	Value	Function
The settings of channels 1 to 8 refer only to the LEDs of LED module 1		
1	0…255	Intensity red (0 % to 100 %), if channel 5 = 0…15 and channel 7 = 0…31
2	0…255	Intensity green (0 % to 100 %), if channel 5 = 0…15 and channel 7 = 0…31

Channel	Value	Function
3	0…255	Intensity blue (0 % to 100 %), if channel 5 = 0…15 and channel 7 = 0…31
4	0…255	Intensity white (0 % to 100 %)1, if channel 5 = 0…15 and channel 7 = 0…31
5	Fixed colour pattern	
	0…15	No fixed colour and movement pattern
	16…255	One of 31 fixed colour patterns, channels 1…4 as well as 6 and 7 without function
6	Strobe effect	
	0…15	Full brightness, no strobe effect
	16…255	Strobe effect, increasing speed, if channel 5 = 0…15
	Effects speed (for channel 7 = 128…223)	
	0…255	Increasing speed, if channel 5 = 0…15
7	Operating mode selection	
	0…31	Constant colour, colour hue is set via channels 1…4
	32…63	Fade-out effect, strobe speed is controlled via channel 6

Channel	Value	Function
	64…95	Fade-in effect, strobe speed is controlled via channel 6
	96…127	Fade-in-out effect, strobe speed is controlled via channel 6
	128…159	Auto-mix effect, speed is controlled via channel 6, channels 1…4 without function
	160…191	Chase (4 colours), speed is controlled via channel 6, channels 1…4 without function
	192…223	Chase (12 colours), speed is controlled via channel 6, channels 1…4 without function
	224…255	Sound-controlled colour change (12 colours)
8	0…255	Dimmer
The settings of channels 9 to 16 refer only to the LEDs of LED module 2		
9	0…255	Intensity red (0 % to 100 %), if channel 13 = 0…15 and channel 15 = 0…31
10	0…255	Intensity green (0 % to 100 %), if channel 13 = 0…15 and channel 15 = 0…31
11	0…255	Intensity blue (0 % to 100 %), if channel 13 = 0…15 and channel 15 = 0…31
12	0…255	Intensity white (0 % to 100 %)1, if channel 13 = 0…15 and channel 15 = 0…31
13	Fixed colour pattern	

Channel	Value	Function
	0…15	No fixed colour and movement pattern
	16…255	One of 31 fixed colour patterns, channels 9…12 as well as 14 and 15 without function
14	Strobe effect	
	0…15	Full brightness, no strobe effect
	16…255	Strobe effect, increasing speed, if channel 13 = 0…15
	Effects speed (for channel 15 = 128…223)	
	0…255	Increasing speed, if channel 13 = 0…15
15	Operating mode selection	
	0…31	Constant colour, colour hue is set via channels 9…12
	32…63	Fade-out effect, strobe speed is controlled via channel 14
	64…95	Fade-in effect, strobe speed is controlled via channel 14
	96…127	Fade-in-out effect, strobe speed is controlled via channel 14
	128…159	Auto-mix effect, speed is controlled via channel 14, channels 9…12 without function

Channel	Value	Function
	160…191	Chase (4 colours), speed is controlled via channel 14, channels 9…12 without function
	192…223	Chase (12 colours), speed is controlled via channel 14, channels 9…12 without function
	224…255	Sound-controlled colour change (12 colours)
16	0…255	Dimmer
The settings of channels 17 to 24 refer only to the LEDs of LED module 3		
17	0…255	Intensity red (0 % to 100 %), if channel 21 = 0…15 and channel 23 = 0…31
18	0…255	Intensity green (0 % to 100 %), if channel 21 = 0…15 and channel 23 = 0…31
19	0…255	Intensity blue (0 % to 100 %), if channel 21 = 0…15 and channel 23 = 0…31
20	0…255	Intensity white (0 % to 100 %)1, if channel 21 = 0…15 and channel 23 = 0…31
21	Fixed colour pattern	
	0…15	No fixed colour and movement pattern
	16…255	One of 31 fixed colour patterns, channels 17…20 as well as 22 and 23 without function
22	Strobe effect	

Channel	Value	Function
	0…15	Full brightness, no strobe effect
	16…255	Strobe effect, increasing speed, if channel 21 = 0…15
	Effects speed (for channel 23 = 128…223)	
	0…255	Increasing speed, if channel 21 = 0…15
23	Operating mode selection	
	0…31	Constant colour, colour hue is set via channels 17…20
	32…63	Fade-out effect, strobe speed is controlled via channel 22
	64…95	Fade-in effect, strobe speed is controlled via channel 22
	96…127	Fade-in-out effect, strobe speed is controlled via channel 22
	128…159	Auto-mix effect, speed is controlled via channel 22, channels 17…20 without function
	160…191	Chase (4 colours), speed is controlled via channel 22, channels 17…20 without function
	192…223	Chase (12 colours), speed is controlled via channel 22, channels 17…20 without function
	224…255	Sound-controlled colour change (12 colours)

Channel	Value	Function
24	0…255	Dimmer
The settings of channels 25 to 32 refer only to the LEDs of LED module 3		
25	0…255	Intensity red (0 % to 100 %), if channel 29 = 0…15 and channel 31 = 0…31
26	0…255	Intensity green (0 % to 100 %), if channel 29 = 0…15 and channel 31 = 0…31
27	0…255	Intensity blue (0 % to 100 %), if channel 29 = 0…15 and channel 31 = 0…31
28	0…255	Intensity white (0 % to 100 %)1, if channel 29 = 0…15 and channel 31 = 0…31
29	Fixed colour pattern	
	0…15	No fixed colour and movement pattern
	16…255	One of 31 fixed colour patterns, channels 25…28 as well as 30 and 31 without function
30	Strobe effect	
	0…15	Full brightness, no strobe effect
	16…255	Strobe effect, increasing speed, if channel 29 = 0…15
	Effects speed (for channel 31 = 128…223)	

Channel	Value	Function
	0…255	Increasing speed, if channel 29 = 0…15
31	Operating mode selection	
	0…31	Constant colour, colour hue is set via channels 25…28
	32…63	Fade-out effect, strobe speed is controlled via channel 30
	64…95	Fade-in effect, strobe speed is controlled via channel 30
	96…127	Fade-in-out effect, strobe speed is controlled via channel 30
	128…159	Auto-mix effect, speed is controlled via channel 30, channels 25…28 without function
	160…191	Chase (4 colours), speed is controlled via channel 30, channels 25…28 without function
	192…223	Chase (12 colours), speed is controlled via channel 30, channels 25…28 without function
	224…255	Sound-controlled colour change (12 colours)
32	0…255	Dimmer

8 Technical specifications

LEDs	20 four-colour LEDs (red, green, blue and white, 4 W each)
Number of DMX channels	16, 20, 32
Beam angle	approx. 35 °
Operating supply voltage	230 V ~ (AC), 50 Hz / 110 V ~ (AC), 60 Hz
Power consumption	86 W
Dimensions (W × H × D, w/o bracket)	390 mm × 395 mm × 135 mm (15.35in. × 15.55in. × 5.31in.)
Dimensions (W × H × D, with bracket)	485 mm × 480 mm ×335 mm (19.09in. × 18.89in. × 13.18in.)
Weight	9.3 kg

9 Plug and connection assignments

Introduction

This chapter will help you select the right cables and plugs to connect your valuable equipment so that a perfect light experience is guaranteed.

Please take our tips, because especially in 'Sound & Light' caution is indicated: Even if a plug fits into a socket, the result of an incorrect connection may be a destroyed DMX controller, a short circuit or 'just' a not working light show!

DMX connections

The unit offers a 3-pin XLR socket for DMX output and a 3-pin XLR plug for DMX input. Please refer to the drawing and table below for the pin assignment of a suitable XLR plug.

Pin	Configuration
1	Ground, shielding
2	Signal inverted (DMX–, 'cold signal')
3	Signal (DMX+, 'hot signal')

10 Troubleshooting

NOTICE!

Possible data transmission errors

For error-free operation make use of dedicated DMX cables and do not use ordinary microphone cables.

Never connect the DMX input or output to audio devices such as mixers or amplifiers.

In the following we list a few common problems that may occur during operation. We give you some suggestions for easy troubleshooting:

Symptom	Remedy
Device not working, no light	Check the mains connection and the main fuse.
Not responding to DMX controller	1. Check the DMX connectors and cables to see if they are properly linked.
	2. Check the address settings and the DMX polarity.
	3. Try using another DMX controller.
	4. Check whether the DMX cables run near or parallel to high-voltage cables that may cause damage or interference to the DMX interface circuit.

If the procedures recommended above do not succeed, please contact our Service Center. You can find the contact information at *www.thomann.de*.

11 Cleaning

Optical lenses

Clean the optical lenses, that are accessible from the outside, regularly in order to optimize the light output. The frequency of cleaning depends on the operating environment: wet, smoky or particularly dirty surroundings can cause more accumulation of dirt on the optics of the device.

- Clean with a soft cloth using our lamp and lens cleaner (item no. 280122).
- Always dry the parts carefully.

12 Protecting the environment

Disposal of the packaging material

For the transport and protective packaging, environmentally friendly materials have been chosen that can be supplied to normal recycling.

Ensure that plastic bags, packaging, etc. are properly disposed of.

Do not just dispose of these materials with your normal household waste, but make sure that they are collected for recycling. Please follow the notes and markings on the packaging.

Disposal of your old device

This product is subject to the European Waste Electrical and Electronic Equipment Directive (WEEE). Do not dispose with your normal household waste.

Dispose of this device through an approved waste disposal firm or through your local waste facility. When discarding the device, comply with the rules and regulations that apply in your country. If in doubt, consult your local waste disposal facility.